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ABSTRACT

This is the teacher's guide to accompany the student guide which together comprise one of five computer-oriented environmental/energy education units. This unit is concerned with the attitude of people toward gasoline shortages and different steps the government could take to reduce gasoline consumption. Through the exercises, part of which make use of a computer program, students consider methods of reducing gasoline consumption, explore the attitudes of people toward these methods, learn that people's attitudes differ, and form and express their own attitudes. This unit is appropriate for social studies and environmental education courses grades 9 through 14. This teacher's guide provides a sample run of the computer program and gives suggestions for using the unit in class. (MR)

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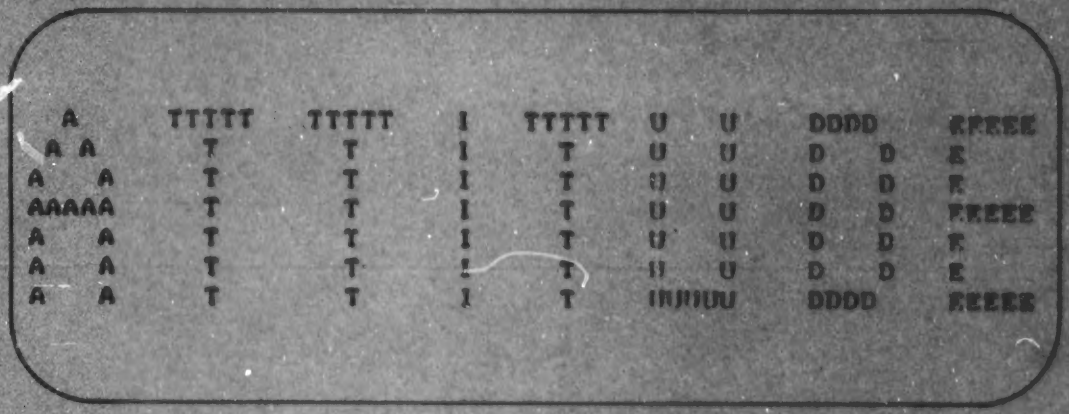
ED167371

COMPUTER TECHNOLOGY PROGRAM
ENVIRONMENTAL EDUCATION UNITS

Computer Oriented Exercises on Attitudes and U.S. Gasoline Consumption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TEACHER GUIDE

U.S. DEPARTMENT OF HEALTH
EDUCATION & WELFARE
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710 S.W. Second Avenue, Portland, Oregon 97204
Telephone (503) 248-6800

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Prospective users of this manual are urged to first run the sample simulation program provided in order to determine any needed or desirable adjustments prior to use.

September 1975

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INTRODUCTION TO THE UNIT

Unit Description

Subject Areas: Social Studies, Environmental Education

Topic: Attitudes toward the gasoline shortage and methods of reducing gasoline consumption

Abstract: This unit is concerned with the attitude of people toward the gasoline shortage and different steps the government could take in order to reduce gasoline consumption. Through the exercises, which are the heart of this unit, the students will consider various methods of reducing gasoline consumption, consider the attitudes of various people toward those methods, learn that different people have different attitudes, and finally form and express their own attitudes.

Part of the exercises make use of a computer program, ATITUD. That program (1) enables students to enter their attitudes toward various issues having to do with the gasoline shortage and (2) prints the student attitudes as well as attitudes of the American public as determined by the Gallup and Harris polls.

Some of the exercises involve students' taking polls in order to determine the attitudes of their friends, relatives, neighbors, etc., toward methods of reducing gasoline consumption. As a final exercise the student is asked to take the role of a member of Congress, consider his/her own attitudes as well as the attitudes of others, and vote on various methods of reducing gasoline consumption.

Grade Level: 9-14

Computer Language: BASIC

Program Name: ATITUD

Objectives

Upon completion of this unit, the student will:

1. Be aware of the attitudes of various people toward methods of solving the gasoline shortage problem.

    a. Recognize that different groups of people, with different backgrounds and interests, have different attitudes toward methods of solution of the gasoline shortage.

2. Understand that government actions toward relieving the gasoline shortage must depend, to some extent, on the attitudes of the people, which may be conflicting.

3. Be able to formulate and express his/her own attitudes toward various methods of reducing gasoline consumption.

Description of the ATITUD Program

ATITUD offers the user two options:

1. To enter and store his or her own answers to 17 questions about the gasoline shortage and methods of reducing gasoline consumption.

2. To see a summary of the responses to the same questions gathered

    a. by Harris and Gallup polls, and

    b. from all his or her classmates

The program is used in Exercise 1 as the means for entering and storing class data on attitudes toward the gasoline situation. In Exercise 2, ATITUD is used to print out data from professional polls and from class entries as a basis for comparison and analysis.

The ATITUD program and printout is clearly structured for ease of interpretation. Even students with no familiarity with computer materials will find no difficulty working with ATITUD and its printout.

A sample run and program listing are given in the last section of this Guide. Instructions for setting up the program for class use are given on page 3.

USING THE UNIT IN THE CLASSROOM

Preparing to Use the Unit

The primary focus of this unit is on attitudes toward the gasoline shortage and toward methods of reducing gasoline consumption. It should be continually emphasized that the purpose of the unit is to examine attitudes and their relation to government actions, not to learn how to solve the shortage problem.

The unit was developed during the spring of 1975 and contains information current at that time. Since then, conditions may have changed and the government may have taken new actions in order to reduce gasoline consumption, causing some of the information presented to be out-of-date. Therefore, before assigning exercises it is suggested that you study the exercises and provide supplementary current information, as necessary. Or, you may wish to assign a special exercise which involves having students determine what conditions have changed and what actions have been initiated since the material was developed.

Setting Up the Computer Program

The computer program ATITUD is used for Exercises 1 and 2. The program makes use of a file which must be opened prior to running the program. The file name is ATITD. It is one record long. It is opened by entering

```
OPEN - ATITD,1
```

If a file name other than ATITD is used, the program statement

```
140 FILES ATITD
```

must be changed accordingly. For example, if you used file name ONE you would enter

```
OPEN - ONE,1
```

and would change statement 140 to

```
140 FILES ONE
```

A sample run and listing of ATITUD are given in the last section of the Guide.

Suggestions for Teaching the Unit

It is essential that the students read the background information at the beginning of the Student Guide before proceeding to the ten exercises in the Guide. You may wish to have the students do just some of the exercises rather than all of them, depending on how extensively you wish to cover this topic and on the amount of time available. If time is very limited you may wish to assign just Exercises 1 and 2.

Exercises 1 and 2 make use of the computer program ATITUD. In Exercise 1 each student will express his/her attitude toward various issues involved in the gasoline shortage by responding to questions and statements. Exercise 2 calls for you or the students to use the program and retrieve a summary of student responses as well as responses gathered by the Gallup and Harris polls.

In Exercise 1 the students will be asked some questions about driving a car and transportation to work. You may wish to tell your students to respond as if they were older and were working full time or to respond as they feel their parents would.

Suggested Additional Exercise

The last exercise (number 10) calls for each student to pretend he/she is a member of Congress, consider his/her own attitude as well as the attitudes of the people he/she represents and the attitudes of special groups, then to vote on each action proposed to reduce gasoline consumption. A meaningful followup to that exercise would be to have the entire class act as members of Congress, debate the various actions proposed, then vote on them.

Sources of Additional Information

Several books having to do with the gasoline shortage are listed below. The best sources of information in connection with this unit, however, will be current articles and editorials in newspapers and magazines.

1. DeBell, Garrett (editor), The Environmental Handbook, Ballantine Books, Inc., New York, 1970.

2. Finkel, Asher J. (editor), Energy, the Environment, and Human Health, Publishing Sciences Group, Inc., Acton, Massachusetts, 1974.

3. Goodwin, Irwin (editor), Energy and Environment: A Collision of Crises, Publishing Sciences Group, Inc., Acton, Massachusetts, 1974.

4. Hellman, Hal, Energy in the World of the Future, M. Evans and Company, Inc., New York, 1973.

5. Rocks, Lawrence and Runyon, Richard P. The Energy Crisis, Crown Publishers, Inc., New York, 1972.

6. Smil, Vaclav, Energy and the Environment, A Long Range Forecasting Study, The University of Manitoba, Winnipeg, Canada, 1974.

PROGRAM DOCUMENTATION

```
GET-ATITUD
RUN
ATITUD

DO YOU WANT TO ANSWER QUESTIONS OR SEE RESULTS?
     1 = ANSWER QUESTIONS
     2 = SEE RESULTS
?1

QUESTION ON THE BASIC ASSUMPTION

THE ENERGY CRISIS IS A SERIOUS PROBLEM.
 1 = AGREE, 2 =DISAGREE OR NOT SURE
?1


QUESTIONS ON THE GOAL -- REDUCE DEPENDENCE ON IMPORTED OIL

IN THE DISPUTE BETWEEN ISRAEL AND THE ARABS, WHICH SIDE DO YOU
SYMPATHIZE WITH MORE -- ISRAEL OR THE ARABS?
 1 = ISRAEL, 2 = ARABS, 3 = NEITHER, 4 = BOTH, 5 = NOT SURE
?3

WE NEED ARAB OIL FOR OUR GASOLINE HERE AT HOME, SO WE HAD BETTER
FIND WAYS TO GET ALONG WITH THE ARABS EVEN IF THAT MEANS SUPPORTING
ISRAEL LESS.
 1 = AGREE, 2 = DISAGREE, 3 = NOT SURE
?1

IF WE YIELD TO ARAB RESTRICTIONS OVER OIL NOW, WE WILL SOON FIND
THE ARABS DICTATING MUCH OF U.S. FOREIGN POLICY, AND THAT IS WRONG.
 1 = AGREE, 2 = DISAGREE, 3 = NOT SURE
?1


DO YOU FAVOR A TAKEOVER AND INTERNATIONALIZATION OF THE ARAB OIL
FIELDS BY THE OIL-CONSUMING NATIONS?
 1 = YES, 2 = NO, 3 = NOT SURE
?2
```

```
DO YOU FAVOR A CUTBACK IN OIL IMPORTS FROM ABROAD, EVEN IF IT MEANS
GOING TO AN ODD-EVEN DAY RATIONING OF GASOLINE?
 1 = YES, 2 = NO, 3 = VOV SURE.
?1


 QUESTIONS ON THE SUBGOAL -- REDUCE CONSUMPTION OF GASOLINE

IF YOU TRAVEL TO WORK, WHAT MEANS DO YOU USE TO GET TO WORK --
CAR, TRAIN, BUS, WALK, OR HOW?
 1 = CAR, 2 = BUS, 3 = WALK, 4 = TRAIN, 5 = OTHER.
?1

ASKED ONLY OF THOSE WHO USE A CAR:

SUPPOSE YOU HAD NO AUTOMOBILE, HOW WOULD YOU THEN GET TO WORK --
BY TRAIN, BUS, WALK, OR HOW?
   1 = BUS, 2 = WALK, 3 = BICYCLE, 4 = TRAIN, 5 = OTHER,
   6 = NOTHING -- COULDN'T GET TO WORK.
?5

SUPPOSE YOU HAD TO REDUCE THE NUMBER OF MILES YOU DRIVE BY ONE-
FOURTH.  HOW DIFFICULT WOULD IT BE FOR YOU TO MEET THIS REQUIREMENT --
VERY DIFFICULT, FAIRLY DIFFICULT, OR NOT AT ALL DIFFICULT?
   1 = VERY DIFFICULT, 2 = FAIRLY DIFFICULT, 3 = NOT AT ALL,
   ?2

 QUESTIONS ON THE OPTIONS

OPTION 1  --  INCREASE THE PRICE OF GASOLINE
              BY TARIFFS


IF THE PRICE OF GASOLINE GOES UP 10 CENTS A GALLON,
DO YOU BELIEVE YOU WILL CUT DOWN YOUR DRIVING ??
 1 = YES   2 = NO
?1

IF YES, WILL YOU CUT DOWN YOUR DRIVING A GREAT DEAL,
SOME, OR ONLY A LITTLE ??
  1 = A GREAT DEAL    2= SOME    3= A LITTLE
?2
```

```
ONE WAY TO CUT OIL IMPORTS INTO THIS COUNTRY
IS TO INCREASE THE TARIFF, OR TAX, ON ALL OIL BROUGHT
INTO THE UNITED STATES FROM FOREIGN SOURCES.  THIS WOULD
RAISE GASOLINE PRICES AND DISCOURAGE PEOPLE FROM USING
AS MUCH GASOLINE.  WOULD YOU FAVOR OR OPPOSE SUCH AN
INCREASE IN THE TARIFF, OR TAX, ON OIL IMPORTED FROM ABROAD ??
  1 = FAVOR  2 = OPPOSE  3 = NOT SURE
?3


OPTION 2 -- INCREASE THE PRICE OF GASOLINE
              BY A DIRECT (AT THE PUMP) GASOLINE TAX


IN ORDER TO CONSERVE OIL, WOULD YOU FAVOR OR OPPOSE
A 10 CENT TAX ON GASOLINE, WHICH WOULD BE DEDUCTIBLE
FROM YOUR FEDERAL INCOME TAX, IF THIS WOULD HELP US
BECOME LESS DEPENDENT ON ARAB OIL ??
 1 = FAVOR   2 = OPPOSE     = NOT SURE
?3


IN ORDER TO CONSERVE OIL, WOULD YOU PREFER A
10-CENT-A-GALLON INCREASE IN THE GASOLINE TAX, WHICH
WOULD BE DEDUCTIBLE FROM YOUR FEDERAL INCOME TAX, OR AN
11-CENT-A-GALLON RISE IN THE COST OF GASOLINE AND FUEL OIL
AS A RESULT OR THE TARIFF ON IMPORTED OIL FROM ABROAD ??
 1 = PREFER 10-CENT TAX   2 = PREFER IMPORT TAX  3 = NOT SURE
?1


IN ORDER TO CONSERVE OIL, WOULD YOU PREFER A
20-CENT-A-GALLON INCREASE IN THE GASOLINE TAX, WHICH WOULD
BE DEDUCTIBLE FROM YOUR FEDERAL INCOME TAX, OR AN 11-CENT-A-GALLON
RISE IN THE COST OF GASOLINE AND FUEL OIL AS A RESULT
OF THE TARIFF ON IMPORTED OIL FROM ABROAD ??
  1 = PREFER 20-CENT TAX  2 = PREFER IMPORT TAX 3 = NOT SURE
?1


OPTION 3 -- REDUCE THE SUPPLY OF GASOLINE BY
            RATIONING OR ALLOCATION


IN ORDER TO CONSERVE OIL, WOULD YOU HAVE MANDATORY
GASOLINE RATIONING ON AN ODD-EVEN BASIS WITH NO INCREASE IN
THE PRICE OF GASOLINE, OR NO RATIONING BUT AN
11-CENT-A-GALLON RISE IN THE PRICE OF GASOLINE AND FUEL OIL
AS A RESULT OF THE TARIFF ON IMPORTED OIL FROM ABROAD ??
 1 = RATIONING  2 = PREFER IMPORTS TAX  3 = NOT SURE
?1
```

```
PRESIDENT FORD SAYS AMERICA MUST REDUCE ITS
USE OF GASOLINE.  IN ORDER TO ACCOMPLISH THIS, WHICH
WOULD YOU PREFER -- THE PRESIDENTS PLAN TO IMPOSE TAXES
THAT WOULD RESULT IN HIGHER GAS PRICES, OR A NATIONWIDE
RATIONING PROGRAM??
   1 = TAXES   2 = RATIONING
?2

DONE



GET-ATITUD
RUN
ATITUD

DO YOU WANT TO ANSWER QUESTIONS OR SEE RESULTS?
     1 = ANSWER QUESTIONS
     2 = SEE RESULTS
?2

     ALL FIGURES ARE PERCENTS

QUESTION ON THE BASIC ASSUMPTION

THE ENERGY CRISIS IS A SERIOUS PROBLEM.

        HARRIS, JAN., 1975  HARRIS JULY, 1974   FILE DATA
AGREE                 84                67            75
DISAGREE OR           16                34            25
NOT SURE
 16   PEOPLE HAVE RESPONDED

QUESTIONS ON THE GOAL -- REDUCE DEPENDENCE ON IMPORTED OIL

IN THE DISPUTE BETWEEN ISRAEL AND THE ARABS, WHICH SIDE DO YOU
SYMPATHIZE WITH MORE -- ISRAEL OR THE ARABS?
        HARRIS, JAN., 1975  HARRIS, NOV., 1973  FILE DATA
ISRAEL                52                39            0
THE ARABS              7                 4            0
NEITHER               24                30          100
BOTH                   6                16            0
NOT SURE              11                11            0
 1    PEOPLE HAVE RESPONDED
```

WE NEED ARAB OIL FOR OUR GASOLINE HERE AT HOME, SO WE HAD BETTER FIND WAYS TO GET ALONG WITH THE ARABS EVEN IF THAT MEANS SUPPORTING ISRAEL LESS.

HARRIS, JAN., 1975 FILE DATA

AGREE	20	100
DISAGREE	68	0
NOT SURE	12	0

1 PEOPLE HAVE RESPONDED

IF WE YIELD TO ARAB RESTRICTIONS OVER OIL NOW, WE WILL SOON FIND THE ARABS DICTATING MUCH OF U.S. FOREIGN POLICY, AND THAT IS WRONG.

HARRIS, JAN., 1975 FILE DATA

AGREE	76	100
DISAGREE	13	0
NOT SURE	11	0

1 PEOPLE HAVE RESPONDED

DO YOU FAVOR A TAKEOVER AND INTERNATIONALIZATION OF THE ARAB OIL FIELDS BY THE OIL-CONSUMING NATIONS?

HARRIS, JAN., 1975 FILE DATA

YES	25	0
NO	58	100
NOT SURE	17	0

1 PEOPLE HAVE RESPONDED

DO YOU FAVOR A CUTBACK IN OIL IMPORTS FROM ABROAD, EVEN IF IT MEANS GOING TO AN ODD-EVEN DAY RATIONING OF GASOLINE?

HARRIS, JAN., 1975 FILE DATA

YES	51	100
NO	34	0
NOT SURE	15	0

1 PEOPLE HAVE RESPONDED

QUESTIONS ON THE SUBGOAL -- REDUCE CONSUMPTION OF GASOLINE

IF YOU TRAVEL TO WORK, WHAT MEANS DO YOU USE TO GET TO WORK -- CAR, TRAIN, BUS, WALK, OR HOW?

GALLUP, JAN., 1975 FILE DATA

CAR	74	100
BUS	7	0
WALK	5	0
TRAIN	2	0
OTHER	12	0

1 PEOPLE HAVE RESPONDED

ASKED ONLY OF THOSE WHO USE A CAR:

SUPPOSE YOU HAD NO AUTOMOBILE, HOW WOULD YOU THEN GET TO WORK -- BY TRAIN, BUS, WALK, OR HOW?

GALLUP, JAN., 1975 FILE DATA

BUS	26	0
WALK	25	0
BIKE	9	0
TRAIN	2	0
OTHER	5	100
NOTHING	33	0

1 PEOPLE HAVE RESPONDED

SUPPOSE YOU HAD TO REDUCE THE NUMBER OF MILES YOU DRIVE BY ONE-FOURTH. HOW DIFFICULT WOULD IT BE FOR YOU TO MEET THIS REQUIREMENT -- VERY DIFFICULT, FAIRLY DIFFICULT, OR NOT AT ALL DIFFICULT?

	GALLUP, JAN., 1975	FILE DATA
VERY DIFFICULT	31	0
FAIRLY ''	23	100
NOT AT ALL	40	0
NNT SURE	6	0

1 PEOPLE HAVE RESPONDED

QUESTIONS ON THE OPTIONS

OPTION 1 -- INCREASE THE PRICE OF GASOLINE BY TARIFFS

IF THE PRICE OF GASOLINE GOES UP 10 CENTS A GALLON, DO YOU BELIEVE YOU WILL CUT DOWN YOUR DRIVING ??

	GALLUP, JAN., 1975	FILE DATA
YES	49	100
NO	48	0

1 PEOPLE HAVE RESPONDED

IF YES, WILL YOU CUT DOWN YOUR DRIVING A GREAT DEAL, SOME, OR ONLY A LITTLE ??

	GALLUP, JAN., 1975	FILE DATA
A GREAT DEAL	11	0
SOME	26	100
A LITTLE	11	0

1 PEOPLE HAVE RESPONDED

ONE WAY TO CUT OIL IMPORTS INTO THIS COUNTRY IS TO INCREASE THE TARIFF, OR TAX, ON ALL OIL BROUGHT INTO THE UNITED STATES FROM FOREIGN SOURCES. THIS WOULD RAISE GASOLINE PRICES AND DISCOURAGE PEOPLE FROM USING AS MUCH GASOLINE. WOULD YOU FAVOR OR OPPOSE SUCH AN INCREASE IN THE TARIFF, OR TAX, ON OIL IMPORTED FROM ABROAD ??

	HARRIS, JAN., 1975	FILE DATA
FAVOR	27	0
OPPOSE	53	0
NOT SURE	20	100

1 PEOPLE HAVE RESPONDED

OPTION 2 -- INCREASE THE PRICE OF GASOLINE
BY A DIRECT (AT THE PUMP) GASOLINE TAX

IN ORDER TO CONSERVE OIL, WOULD YOU FAVOR OR OPPOSE A 10 CENT TAX ON GASOLINE, WHICH WOULD BE DEDUCTIBLE FROM YOUR FEDERAL INCOME TAX, IF THIS WOULD HELP US BECOME LESS DEPENDENT ON ARAB OIL ??

	HARRIS, JAN., 1975	FILE DATA
FAVOR	51	0
OPPOSE	24	0
NOT SURE	25	100

1 PEOPLE HAVE RESPONDED

IN ORDER TO CONSERVE OIL, WOULD YOU PREFER A 10-CENT-A-GALLON INCREASE IN THE GASOLINE TAX, WHICH WOULD BE DEDUCTIBLE FROM YOUR FEDERAL INCOME TAX, OR AN 11-CENT-A-GALLON RISE IN THE COST OF GASOLINE AND FUEL OIL AS A RESULT OR THE TARIFF ON IMPORTED OIL FROM ABROAD ??

	HARRIS, JAN., 1975	FILE DATA
PREFER 10-CENT TAX	60	100
PREFER IMPORT TAX	13	0
NOT SURE	27	0

1 PEOPLE HAVE RESPONDED

IN ORDER TO CONSERVE OIL, WOULD YOU PREFER A 20-CENT-A-GALLON INCREASE IN THE GASOLINE TAX, WHICH WOULD BE DEDUCTIBLE FROM YOUR FEDERAL INCOME TAX, OR AN 11-CENT-A-GALLON RISE IN THE COST OF GASOLINE AND FUEL OIL AS A RESULT OF THE TARIFF ON IMPORTED OIL FROM ABROAD ??

	HARRIS, JAN., 1975	FILE DATA
PREFER 20-CENT TAX	38	100
PREFER IMPORT TAX	29	0
NOT SURE	33	0

1 PEOPLE HAVE RESPONDED

OPTION 3 -- REDUCE THE SUPPLY OF GASOLINE BY
RATIONING OR ALLOCATION

IN ORDER TO CONSERVE OIL, WOULD YOU HAVE MANDATORY GASOLINE RATIONING ON AN ODD-EVEN BASIS WITH NO INCREASE IN THE PRICE OF GASOLINE, OR NO RATIONING BUT AN 11-CENT-A-GALLON RISE IN THE PRICE OF GASOLINE AND FUEL OIL AS A RESULT OF THE TARIFF ON IMPORTED OIL FROM ABROAD ??

	HARRIS, JAN., 1975	FILE DATA
RATIONING	60	100
PREFER IMPORTS TAX	25	0
NOT SURE	15	0

1 PEOPLE HAVE RESPONDED

PRESIDENT FORD SAYS AMERICA MUST REDUCE ITS USE OF GASOLINE. IN ORDER TO ACCOMPLISH THIS, WHICH WOULD YOU PREFER -- THE PRESIDENTS PLAN TO IMPOSE TAXES THAT WOULD RESULT IN HIGHER GAS PRICES, OR A NATIONWIDE RATIONING PROGRAM??

	GALLUP, JAN., 1975	FILE DATA
TAXES	32	0
RATIONING	55	100

1 PEOPLE HAVE RESPONDED

DONE

ATITUD Program Listing

```
10  DIM G$[72],E[17],D[17],F[6]
20  DIM A[55]
30  FILES ATITD
40  FOR N=1 TO 17
50  READ E[N]
60  NEXT N
70  READ #1,1
80  IF TYP(1)=1 THEN 120
90  IF  END #1 THEN 120
100  PRINT #1;0
110  GOTO 90
120  READ #1,1
130  PRINT "DO YOU WANT TO ANSWER QUESTIONS OR SEE RESULTS?"
140  PRINT "      1 = ANSWER QUESTIONS"
150  PRINT "      2 = SEE RESULTS"
160  INPUT Q
170  IF Q=1 OR Q=2 THEN 200
180  PRINT "YOU MUST ENTER 1 OR 2"
190  GOTO 130
200  IF Q=1 THEN 220
210  Q=0
220  REM QUESTION ON ASSUMPTION
230  PRINT
240  IF Q=1 THEN 270
250  PRINT "      ALL FIGURES ARE PERCENTS"
260  PRINT
270  PRINT "QUESTION ON THE BASIC ASSUMPTION"
280  PRINT
290  N=1
300  PRINT "THE ENERGY CRISIS IS A SERIOUS PROBLEM."
310  IF Q=0 THEN 360
320  PRINT " 1 = AGREE, 2 =DISAGREE OR NOT SURE"
330  INPUT R
340  IF R<1 OR R>2 THEN 330
350  IF Q=1 THEN 380
360  H=2
370  GOTO 400
380  H=0
390  READ #1,1
400  GOSUB H OF 3580,3710
410  PRINT
420  IF Q=1 THEN 480
430  PRINT TAB(8);"HARRIS, JAN., 1975  HARRIS JULY, 1974",TAB(48);"FILE ■
440  PRINT "AGREE","      84","      67",TAB(52),F[1]
450  PRINT "DISAGREE OR","      16","      34",TAB(52),F[2]
460  PRINT "NOT SURE"
470  PRINT T;"PEOPLE HAVE RESPONDED "
480  PRINT
490  REM QUESTIONS ON THE GOAL
500  N=2
510  G$="HARRIS"
520  PRINT "QUESTIONS ON THE GOAL -- REDUCE DEPENDENCE ON IMPORTED OIL"
530  PRINT
540  PRINT "IN THE DISPUTE BETWEEN ISRAEL AND THE ARABS, WHICH SIDE DO YO
```

```
550  PRINT "SYMPATHIZE WITH MORE -- ISRAEL OR THE ARABS?"
560  IF Q=0 THEN 600
570  PRINT " 1 = ISRAEL, 2 = ARABS, 3 = NEITHER, 4 = BOTH, 5 = NOT SURE"
580  INPUT R
590  IF R<1 OR R>5 THEN 580
600  GOSUB H OF 3580,3710
610  IF Q=1 THEN 690
620  PRINT TAB(8);"HARRIS, JAN., 1975  HARRIS, NOV., 1973";TAB(48);"FILE
630  PRINT "ISRAEL","     52","     39";TAB(52);F(1)
640  PRINT "THE ARABS","      7","      4",TAB(52);F(2)
650  PRINT "NEITHER","     24","     30";TAB(52);F(3)
660  PRINT "BOTH","      6","     16",TAB(52);F(4)
670  PRINT "NOT SURE","     11","     11",TAB(52);F(5)
680  PRINT T;"PEOPLE HAVE RESPONDED"
690  PRINT
700  N=3
710  PRINT "WE NEED ARAB OIL FOR OUR GASOLINE HERE AT HOME, SO WE HAD BE
720  PRINT "FIND WAYS TO GET ALONG WITH THE ARABS EVEN IF THAT MEANS SUP
730  PRINT "ISRAEL LESS."
740  IF Q=0 THEN 770
750  GOSUB 3500
760  GOTO 780
770  GOSUB 3550
780  GOSUB H OF 3580,3710
790  IF Q=1 THEN 840
800  PRINT "AGREE","     20",F(1)
810  PRINT "DISAGREE","     68",F(2)
820  PRINT "NOT SURE","     12",F(3)
830  PRINT T;"PEOPLE HAVE RESPONDED"
840  PRINT
850  N=4
860  PRINT "IF WE YIELD TO ARAB RESTRICTIONS OVER OIL NOW, WE WILL SOON
870  PRINT "THE ARABS DICTATING MUCH OF U.S. FOREIGN POLICY, AND THAT IS
880  IF Q=0 THEN 910
890  GOSUB 3500
900  GOTO 920
910  GOSUB 3550
920  GOSUB H OF 3580,3710
930  IF Q=1 THEN 980
940  PRINT "AGREE","     76",F(1)
950  PRINT "DISAGREE","     13",F(2)
960  PRINT "NOT SURE","     11",F(3)
970  PRINT T;"PEOPLE HAVE RESPONDED"
980  PRINT
990  N=5
1000  PRINT "DO YOU FAVOR A TAKEOVER AND INTERNATIONALIZATION OF THE ARAB
1010  PRINT "FIELDS BY THE OIL-CONSUMING NATIONS?"
1020  IF Q=0 THEN 1060
1030  PRINT " 1 = YES, 2 = NO, 3 = NOT SURE"
1040  GOSUB 3520
1050  GOTO 1070
1060  GOSUB 3550
1070  GOSUB H OF 3580,3710
1080  IF Q=1 THEN 1130
```

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1090  PRINT "YES","      25",F[1]
1100  PRINT "NO","      58",F[2]
1110  PRINT "NOT SURE","      17",F[3]
1120  PRINT T;"PEOPLE HAVE RESPONDED"
1130  PRINT
1140  N=6
1150  PRINT "DO YOU FAVOR A CUTBACK IN OIL IMPORTS FROM ABROAD, EVEN IF ■
1160  PRINT "GOING TO AN ODD-EVEN DAY RATIONING OF GASOLINE?"
1170  IF Q=0 THEN 1210
1180  PRINT " 1 = YES, 2 = NO, 3 = NOT SURE."
1190  GOSUB 3520
1200  GOTO 1220
1210  GOSUB 3550
1220  GOSUB H OF 3580,3710
1230  IF Q=1 THEN 1280
1240  PRINT "YES","      51",F[1]
1250  PRINT "NO","      34",F[2]
1260  PRINT "NOT SURE","      15",F[3]
1270  PRINT T;"PEOPLE HAVE RESPONDED"
1280  PRINT
1290  REM QUESTIONS ON THE SUBGOAL
1300  PRINT
1310  G$="GALLUP"
1320  PRINT " QUESTIONS ON THE SUBGOAL -- REDUCE CONSUMPTION OF GASOLINE"
1330  PRINT
1340  N=7
1350  PRINT "IF YOU TRAVEL TO WORK, WHAT MEANS DO YOU USE TO GET TO WORK■
1360  PRINT "CAR, TRAIN, BUS, WALK, OR HOW?"
1370  IF Q=0 THEN 1420
1380  PRINT " 1 = CAR, 2 = BUS, 3 = WALK, 4 = TRAIN, 5 = OTHER."
1390  INPUT R
1400  IF R<1 OR R>5 THEN 1390
1410  IF Q=1 THEN 1430
1420  GOSUB 3550
1430  GOSUB H OF 3580,3710
1440  IF Q=1 THEN 1510
1450  PRINT "CAR","      74",F[1]
1460  PRINT "BUS","       7",F[2]
1470  PRINT "WALK","       5",F[3]
1480  PRINT "TRAIN","       2",F[4]
1490  PRINT "OTHER","      12",F[5]
1500  PRINT T;" PEOPLE HAVE RESPONDED"
1510  PRINT
1520  N=8
1530  IF Q=0 THEN 1550
1540  IF R>1 THEN 1590
1550  PRINT "ASKED ONLY OF THOSE WHO USE A CAR:"
1560  PRINT
1570  PRINT "SUPPOSE YOU HAD NO AUTOMOBILE, HOW WOULD YOU THEN GET TO WOR
1580  PRINT "BY TRAIN, BUS, WALK, OR HOW?"
1590  IF Q=0 THEN 1680
1600  IF R>1 THEN 1790
1610  PRINT TAB(3);
1620  PRINT "1 = BUS, 2 = WALK, 3 = BICYCLE, 4 = TRAIN, 5 = OTHER."
```

```
1630  PRINT TAB(3);
1640  PRINT "6 = NOTHING -- COULDN'T GET TO WORK."
1650  INPUT R
1660  IF R<1 OR R>5 THEN 1650
1670  IF Q=1 THEN 1690
1680  GOSUB 3550
1690  GOSUB H OF 3580,3710
1700  IF Q=1 THEN 1780
1710  PRINT "BUS","      26",F[1]
1720  PRINT "WALK","     25",F[2]
1730  PRINT "BIKE","      9",F[3]
1740  PRINT "TRAIN","      2",F[4]
1750  PRINT "OTHER","      5",F[5]
1760  PRINT "NOTHING","     33",F[6]
1770  PRINT T;" PEOPLE HAVE RESPONDED"
1780  PRINT
1790  N=9
1800  PRINT "SUPPOSE YOU HAD TO REDUCE THE NUMBER OF MILES YOU DRIVE BY
1810  PRINT "FOURTH.  HOW DIFFICULT WOULD IT BE FOR YOU TO MEET THIS REQ
1820  PRINT "VERY DIFFICULT, FAIRLY DIFFICULT, OR NOT AT ALL DIFFICULT?"
1830  IF Q=0 THEN 1900
1840  PRINT TAB(3);
1850  PRINT "1 = VERY DIFFICULT, 2 = FAIRLY DIFFICULT, 3 = NOT AT ALL,"
1860  PRINT TAB(3);
1870  INPUT R
1880  IF R<1 OR R>4 THEN 1870
1890  IF Q=1 THEN 1910
1900  GOSUB 3550
1910  GOSUB H OF 3580,3710
1920  IF Q=1 THEN 1980
1930  PRINT "VERY DIFFICULT","     31",F[1]
1940  PRINT "FAIRLY  '","     23",F[2]
1950  PRINT "NOT AT ALL","     40",F[3]
1960  PRINT "NOT SURE","      6",F[4]
1970  PRINT T;"PEOPLE HAVE RESPONDED"
1980  PRINT
1990  PRINT " QUESTIONS ON THE OPTIONS"
2000  PRINT
2010  PRINT "OPTION 1  --  INCREASE THE PRICE OF GASOLINE"
2020  PRINT "              BY TARIFFS";LIN(1)
2030  PRINT
2040  N=10
2050  PRINT "IF THE PRICE OF GASOLINE GOES UP 10 CENTS A GALLON,"
2060  PRINT "DO YOU BELIEVE YOU WILL CUT DOWN YOUR DRIVING ??"
2070  IF Q=0 THEN 2110
2080  PRINT " 1 = YES   2 = NO "
2090  INPUT R
2100  IF R<1 OR R>2 THEN 2080
2110  REM
2120  GOSUB H OF 3580,3710
2130  IF Q=1 THEN 2180
2140  PRINT LIN(2);TAB(8);"GALLUP, JAN., 1975   FILE DATA"
2150  PRINT "YES","     49";TAB(33);F[1]
2160  PRINT "NO","     48";TAB(33);F[2]
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2170  PRINT T;"PEOPLE HAVE RESPONDED"
2180  PRINT
2190  N=11
2200  IF Q=0 THEN2220
2210  IF R>1 THEN 2360
2220  PRINT "IF YES, WILL YOU CUT DOWN YOUR DRIVING A GREAT DEAL,"
2230  PRINT "SOME, OR ONLY A LITTLE ??"
2240  IF Q=0 THEN 2260
2250  PRINT "  1 = A GREAT DEAL     2= SOME    3= A LITTLE"
2260  INPUT R
2270  IF R<1 OR R>3 THEN 2250
2280  PRINT
2290  GOSUB H OF 3580,3710
2300  IF Q=1 THEN 2360
2310  PRINT TAB(10);"GALLUP, JAN., 1975   FILE DATA"
2320  PRINT "A GREAT DEAL       11";TAB(34);F(1)
2330  PRINT "SOME                26";TAB(34);F(2)
2340  PRINT "A LITTLE            11";TAB(34);F(3)
2350  PRINT T;"PEOPLE HAVE RESPONDED"
2360  N=12
2370  PRINT LIN(2);"ONE WAY TO CUT OIL IMPORTS INTO THIS COUNTRY"
2380  PRINT "IS TO INCREASE THE TARIFF, OR TAX, ON ALL OIL BROUGHT"
2390  PRINT "INTO THE UNITED STATES FROM FOREIGN SOURCES.  THIS WOULD"
2400  PRINT "RAISE GASOLINE PRICES AND DISCOURAGE PEOPLE FROM USING"
2410  PRINT "AS MUCH GASOLINE.  WOULD YOU FAVOR OR OPPOSE SUCH AN"
2420  PRINT "INCREASE IN THE TARIFF, OR TAX, ON OIL IMPORTED FROM ABROAD?
2430  IF Q=0 THEN 2470
2440  PRINT "  1 = FAVOR  2 = OPPOSE  3 = NOT SURE"
2450  INPUT R
2460  IF R<1 OR R>3 THEN 2440
2470  REM
2480  GOSUB H OF 3580,3710
2490  IF Q=1 THEN 2550
2500  PRINT LIN(1);TAB(10);"HARRIS, JAN., 1975   FILE DATA"
2510  PRINT "FAVOR";TAB(20);"27";TAB(34);F(1)
2520  PRINT "OPPOSE";TAB(20);"53";TAB(34);F(2)
2530  PRINT "NOT SURE";TAB(20);"20";TAB(34);F(3)
2540  PRINT T;"PEOPLE HAVE RESPONDED"
2550  PRINT LIN(2);"OPTION 2 -- INCREASE THE PRICE OF GASOLINE"
2560  PRINT "                BY A DIRECT (AT THE PUMP) GASOLINE TAX"
2570  N=13
2580  PRINT LIN(2);"IN ORDER TO CONSERVE OIL, WOULD YOU FAVOR OR OPPOSE"
2590  PRINT "A 10 CENT TAX ON GASOLINE, WHICH WOULD BE DEDUCTIBLE"
2600  PRINT "FROM YOUR FEDERAL INCOME TAX, IF THIS WOULD HELP US"
2610  PRINT "BECOME LESS DEPENDENT ON ARAB OIL ??"
2620  IF Q=0 THEN 2660
2630  PRINT " 1 = FAVOR   2 = OPPOSE   3 = NOT SURE"
2640  INPUT R
2650  IF R<1 OR R>3 THEN 2630
2660  REM
2670  GOSUB H OF 3580,3710
2680  IF Q=1 THEN 2740
2690  PRINT LIN(2);TAB(10);"HARRIS, JAN., 1975   FILE DATA"
2700  PRINT "FAVOR";TAB(20);"51";TAB(34);F(1)
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2710  PRINT "OPPOSE";TAB(20);"24";TAB(34);F[2]
2720  PRINT "NOT SURE";TAB(20);"25";TAB(34);F[3]
2730  PRINT T;"PEOPLE HAVE RESPONDED"
2740  PRINT
2750  N=14
2760  PRINT LIN(2);"IN ORDER TO CONSERVE OIL, WOULD YOU PREFER A "
2770  PRINT "10-CENT-A-GALLON INCREASE IN THE GASOLINE TAX, WHICH"
2780  PRINT "WOULD BE DEDUCTIBLE FROM YOUR FEDERAL INCOME TAX, OR AN"
2790  PRINT "11-CENT-A-GALLON RISE IN THE COST OF GASOLINE AND FUEL OIL"
2800  PRINT "AS A RESULT OR THE TARIFF ON IMPORTED OIL FROM ABROAD ??"
2810  IF Q=0 THEN 2850
2820  PRINT " 1 = PREFER 10-CENT TAX   2 = PREFER IMPORT TAX  3 = NOT SUR
2830  INPUT R
2840  IF R<1 OR R>3 THEN 2820
2850  REM
2860  GOSUB H OF 3580,3710
2870  IF Q=1 THEN 2930
2880  PRINT LIN(2);TAB(10);"HARRIS, JAN., 1975   FILE DATA"
2890  PRINT "PREFER 10-CENT TAX    60";TAB(34);F[1]
2900  PRINT "PREFER IMPORT TAX     13";TAB(34);F[2]
2910  PRINT "NOT SURE              27";TAB(34);F[3]
2920  PRINT T;"PEOPLE HAVE RESPONDED"
2930  N=15
2940  PRINT LIN(3);"IN ORDER TO CONSERVE OIL, WOULD YOU PREFER A"
2950  PRINT "20-CENT-A-GALLON INCREASE IN THE GASOLINE TAX, WHICH WOULD"
2960  PRINT "BE DEDUCTIBLE FROM YOUR FEDERAL INCOME TAX, OR AN 11-CENT-A
2970  PRINT "RISE IN THE COST OF GASOLINE AND FUEL OIL AS A RESULT"
2980  PRINT "OF THE TARIFF ON IMPORTED OIL FROM ABROAD ??"
2990  IF Q=0 THEN 3030
3000  PRINT "  1 = PREFER 20-CENT TAX  2 = PREFER IMPORT TAX 3 = NOT SURE
3010  INPUT R
3020  IF R<1 OR R>3 THEN 3000
3030  REM
3040  GOSUB H OF 3580,3710
3050  IF Q=1 THEN 3110
3060  PRINT LIN(2);TAB(10);"HARRIS, JAN., 1975   FILE DATA"
3070  PRINT "PREFER 20-CENT TAX     38";TAB(34);F[1]
3080  PRINT "PREFER IMPORT TAX      29";TAB(34);F[2]
3090  PRINT "NOT SURE               33";TAB(34);F[3]
3100  PRINT T;"PEOPLE HAVE RESPONDED"
3110  PRINT LIN(2);"OPTION 3 -- REDUCE THE SUPPLY OF GASOLINE BY"
3120  PRINT "            RATIONING OR ALLOCATION"
3130  N=16
3140  PRINT LIN(2);"IN ORDER TO CONSERVE OIL, WOULD YOU HAVE MANDATORY"
3150  PRINT "GASOLINE RATIONING ON AN ODD-EVEN BASIS WITH NO INCREASE IN"
3160  PRINT "THE PRICE OF GASOLINE, OR NO RATIONING BUT AN"
3170  PRINT "11-CENT-A-GALLON RISE IN THE PRICE OF GASOLINE AND FUEL OIL"
3180  PRINT "AS A RESULT OF THE TARIFF ON IMPORTED OIL FROM ABROAD ??"
3190  IF Q=0 THEN 3230
3200  PRINT " 1 = RATIONING  2 = PREFER IMPORTS TAX  3 = NOT SURE"
3210  INPUT R
3220  IF R<1 OR R>3 THEN 3200
3230  REM
3240  GOSUB H OF 3580,3710
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3250  IF Q=1 THEN 3310
3260  PRINT LIN(2),TAB(10);"HARRIS, JAN., 1975   FILE DATA"
3270  PRINT "RATIONING"TAB(20);"60";TAB(34);F[1]
3280  PRINT "PREFER IMPORTS TAX"TAB(20);"25";TAB(34);F[2]
3290  PRINT "NOT SURE"TAB(20);"15";TAB(34);F[3]
3300  PRINT T;"PEOPLE HAVE RESPONDED"
3310  N=17
3320  PRINT LIN(3);"PRESIDENT FORD SAYS AMERICA MUST REDUCE ITS"
3330  PRINT "USE OF GASOLINE.  IN ORDER TO ACCOMPLISH THIS, WHICH "
3340  PRINT "WOULD YOU PREFER -- THE PRESIDENTS PLAN TO IMPOSE TAXES"
3350  PRINT "THAT WOULD RESULT IN HIGHER GAS PRICES, OR A NATIONWIDE"
3360  PRINT "RATIONING PROGRAM??"
3370  IF Q=0 THEN 3410
3380  PRINT "   1 = TAXES   2 = RATIONING"
3390  INPUT R
3400  IF R<1 OR R>2 THEN 3380
3410  REM
3420  GOSUB R OF 3580,3710
3430  IF Q=1 THEN 3480
3440  PRINT LIN(2);TAB(10);"GOLLUP, JAN., 1975   FILE DATA"
3450  PRINT "TAXES"TAB(20);"32";TAB(34);F[1]
3460  PRINT "RATIONING"TAB(20);"55";TAB(34);F[2]
3470  PRINT T;"PEOPLE HAVE RESPONDED"
3480  REM
3490  GOTO 3830
3500  REM PRINT SUBROUTINE
3510  PRINT " 1 = AGREE, 2 = DISAGREE, 3 = NOT SURE"
3520  INPUT R
3530  IF R<1 OR R>3 THEN 3520
3540  IF Q=1 THEN 3560
3550  PRINT TAB(8);G$;", JAN., 1975","FILE DATA"
3560  RETURN
3570  REM SUBROUTINE FOR RECORDING ANSWERS
3580  READ #1,1
3590  MAT  READ #1;A
3600  K=0
3610  IF N=1 THEN 3660
3620  M=N-1
3630  FOR N=1 TO M
3640  K=K+E[N]
3650  NEXT N
3660  K=K+R
3670  A[K]=A[K]+1
3680  READ #1,1
3690  MAT  PRINT #1;A
3700  RETURN
3710  REM SUBROUTINE FOR RETRIEVING ANSWERS
3720  T=0
3730  FOR I=1 TO E[N]
3740  READ #1;F[I]
3750  T=T+F[I]
3760  NEXT I
3770  IF T=0 THEN 3810
3780  FOR I=1 TO E[N]
3790  F[I]=INT(F[I]/T*100+.5)
3800  NEXT I
3810  RETURN
3820  DATA 2,5,3,3,3,3,5,6,3,2,3,3,3,3,3,3,2
3830  END
```